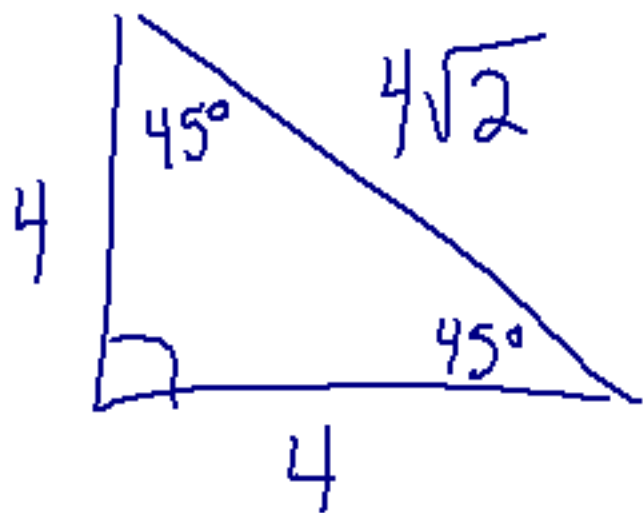
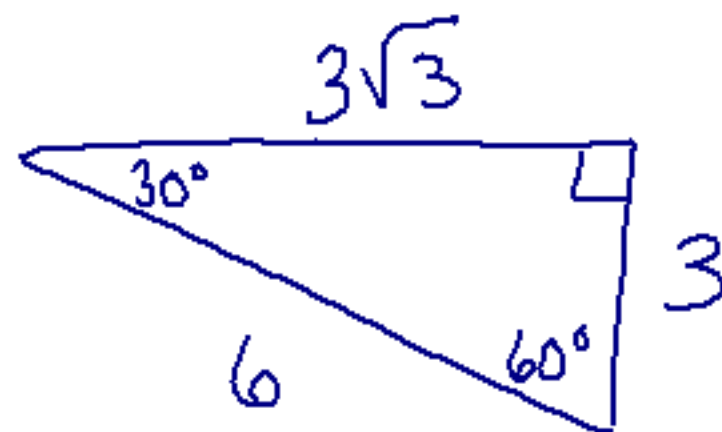


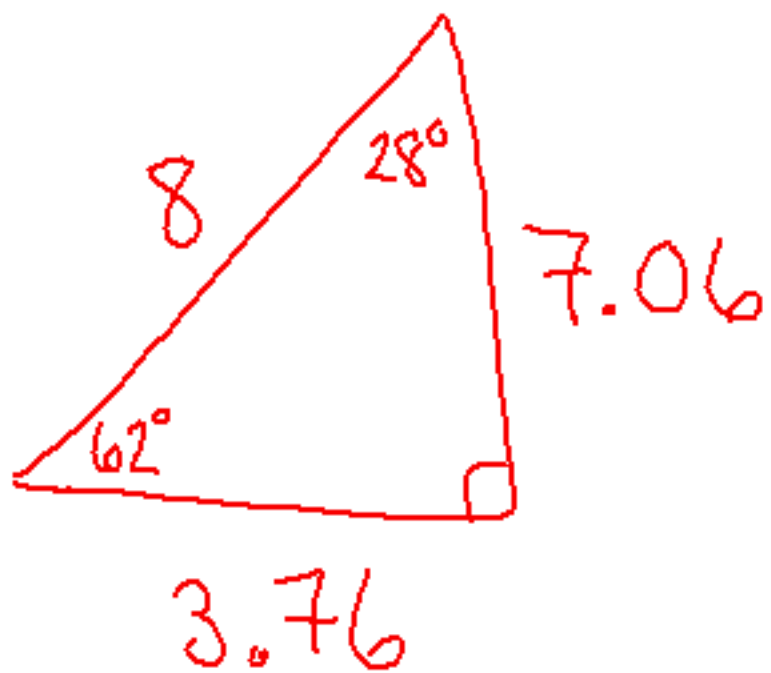
①



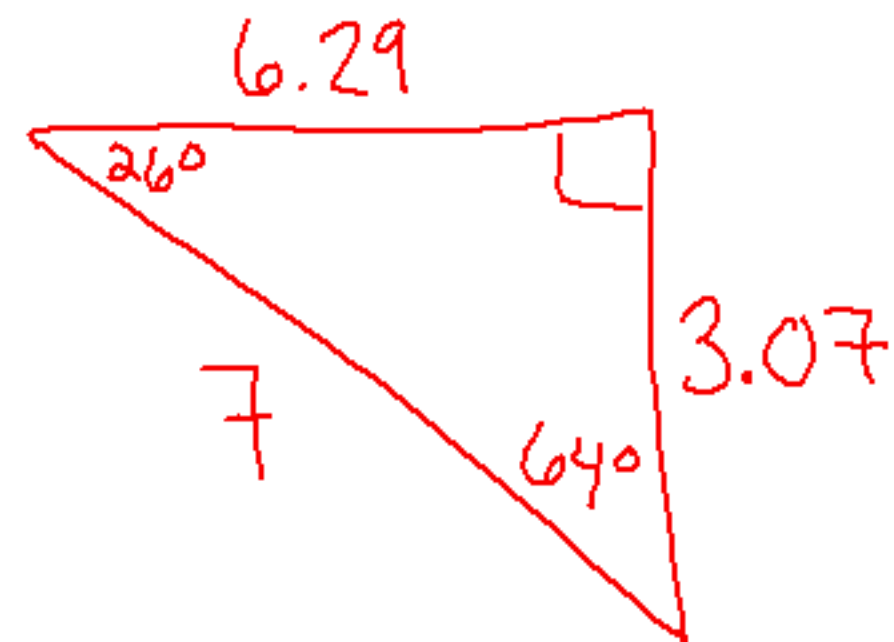
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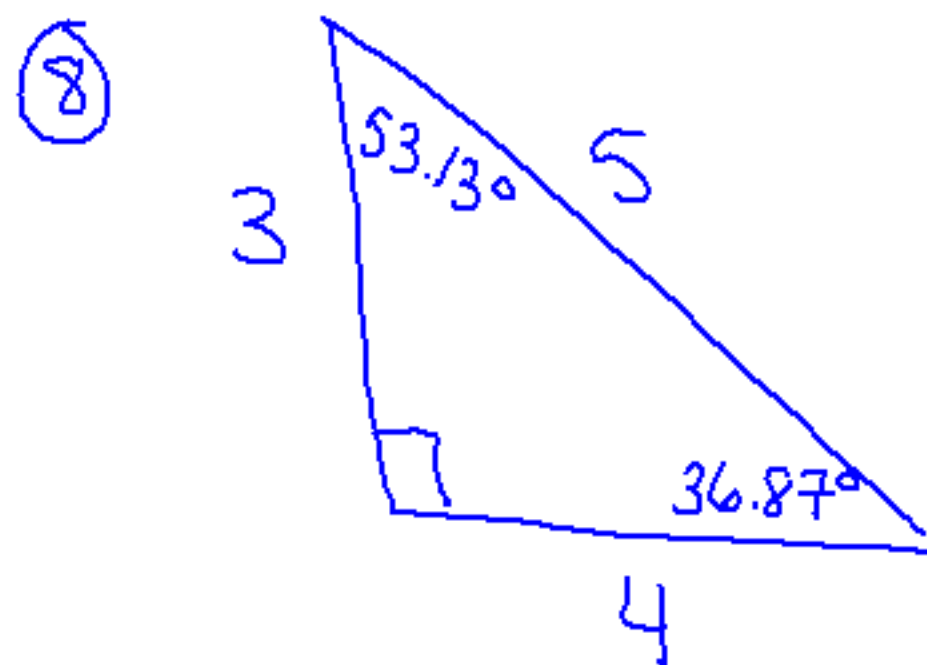
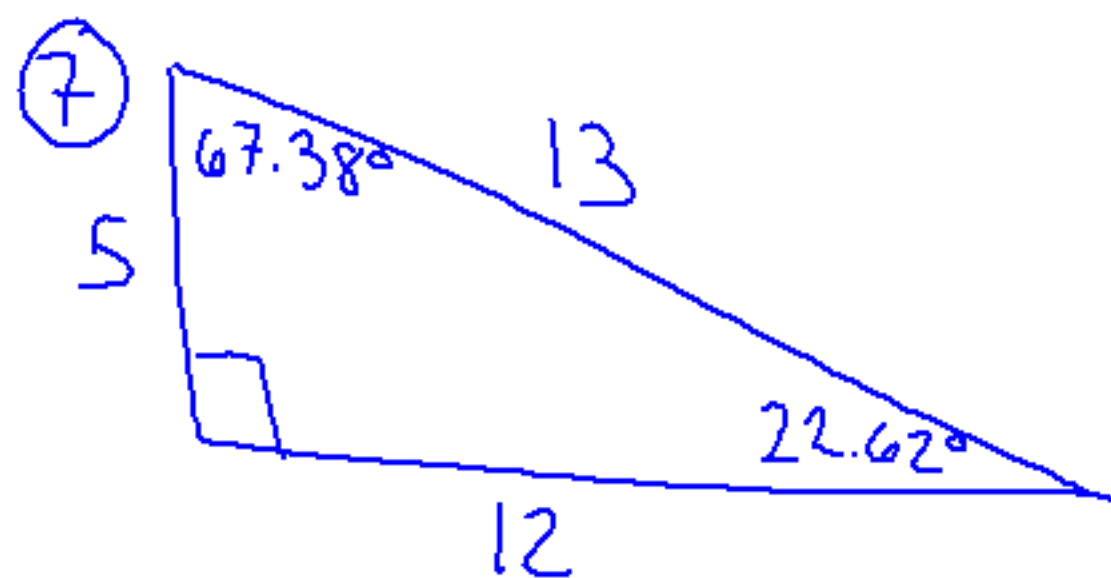
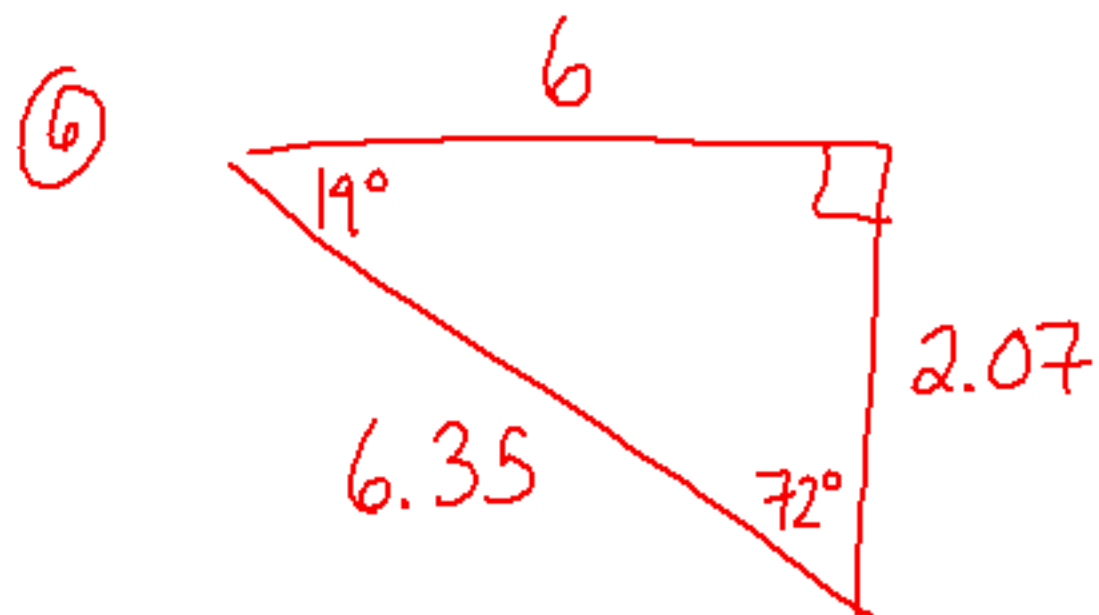
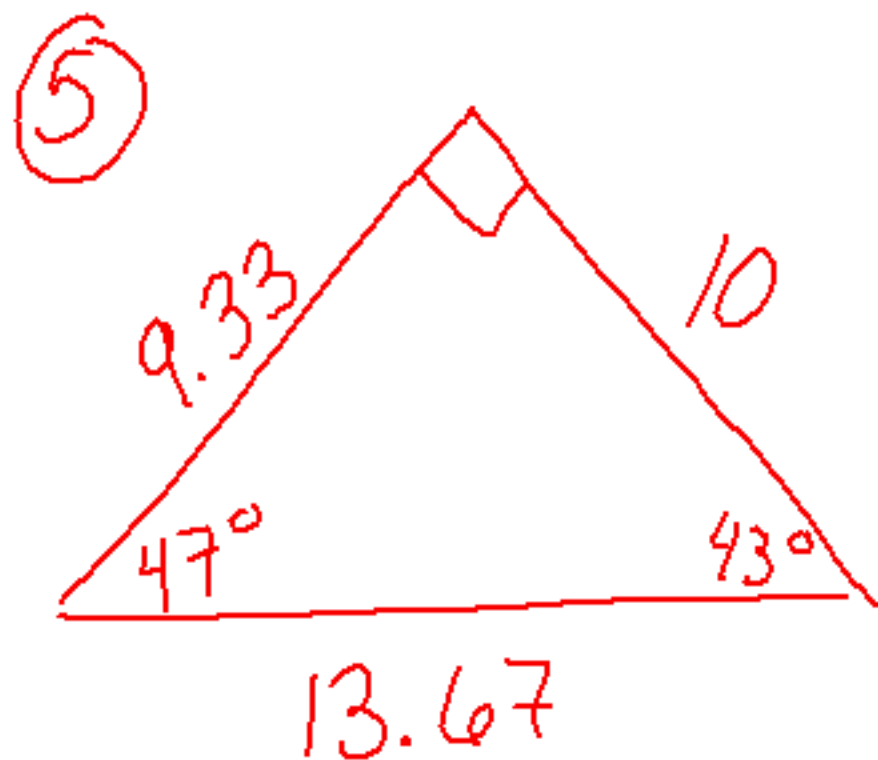


③

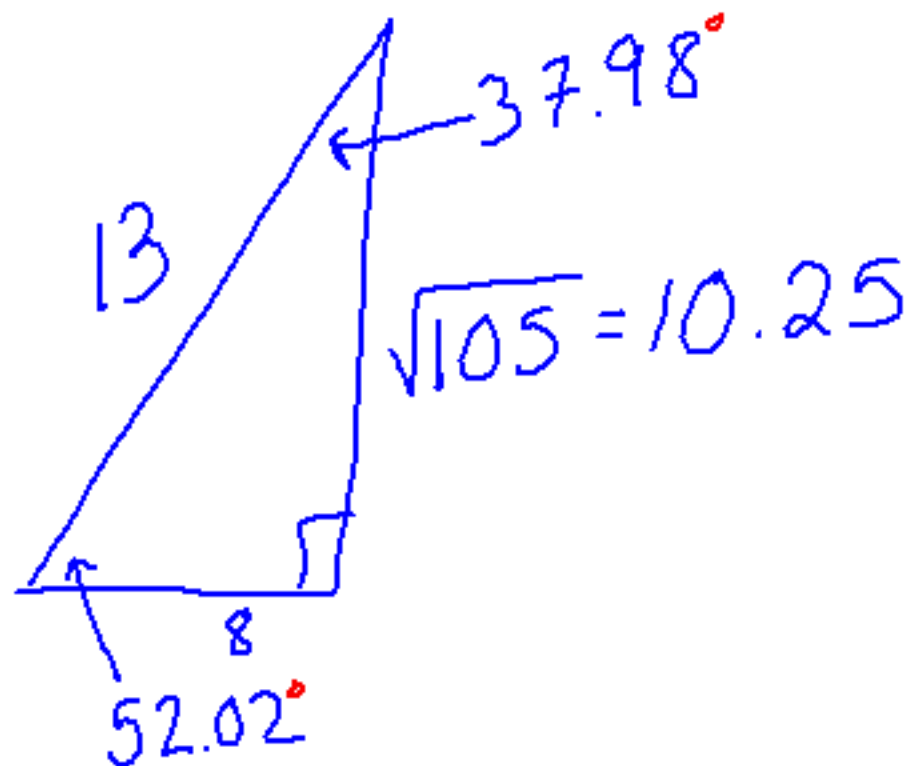


④

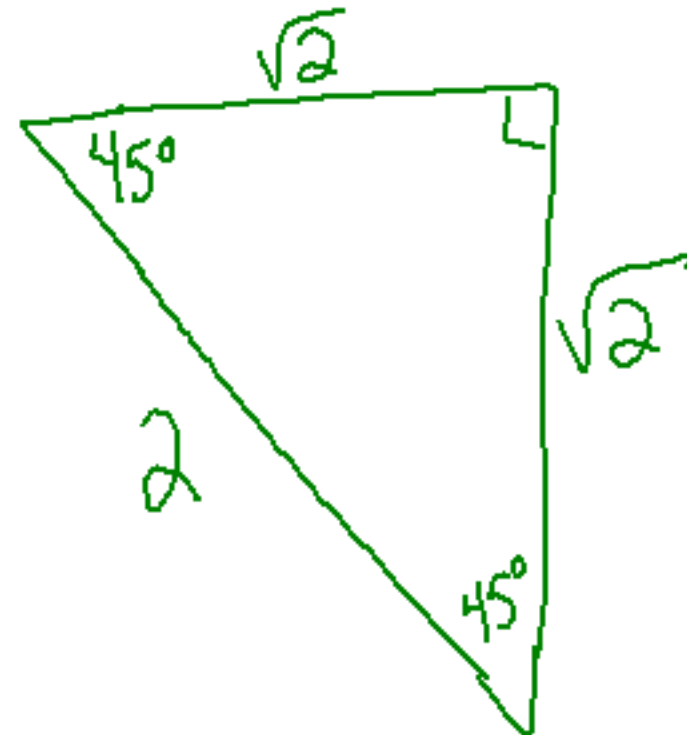




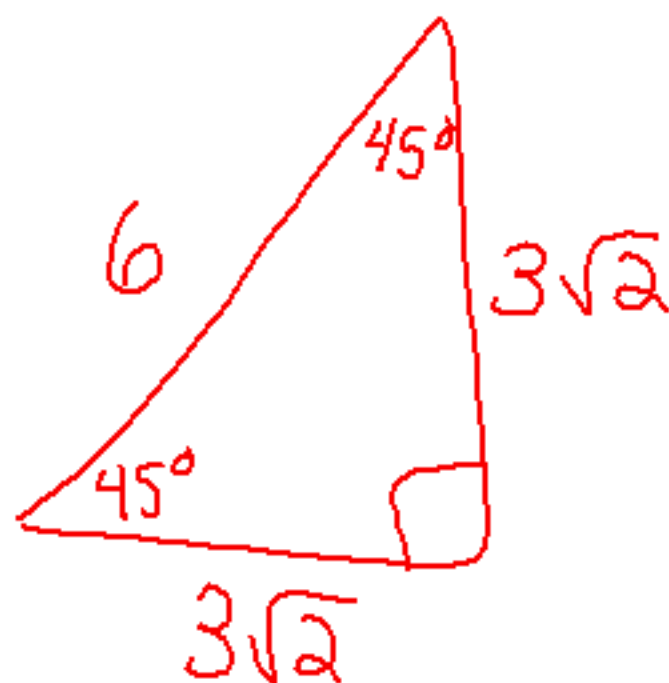
9



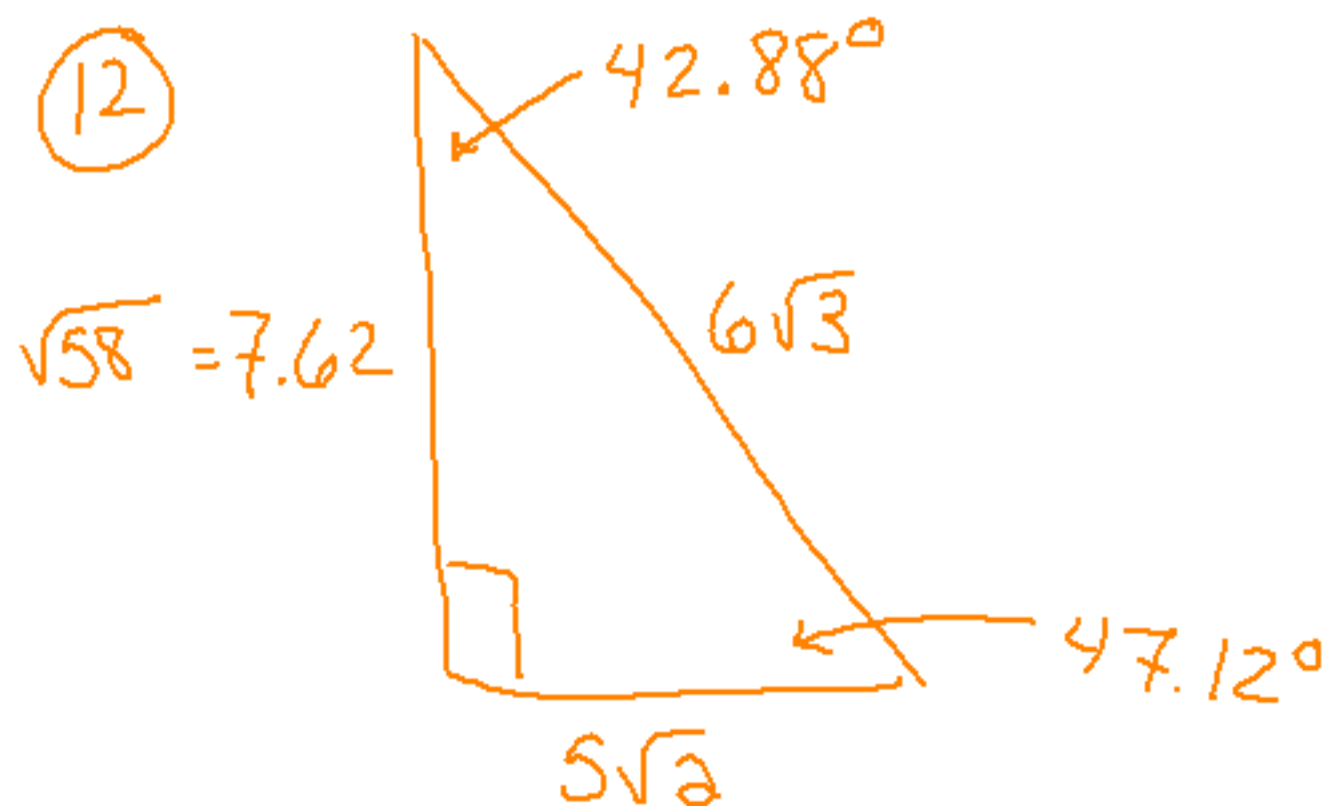
10



11

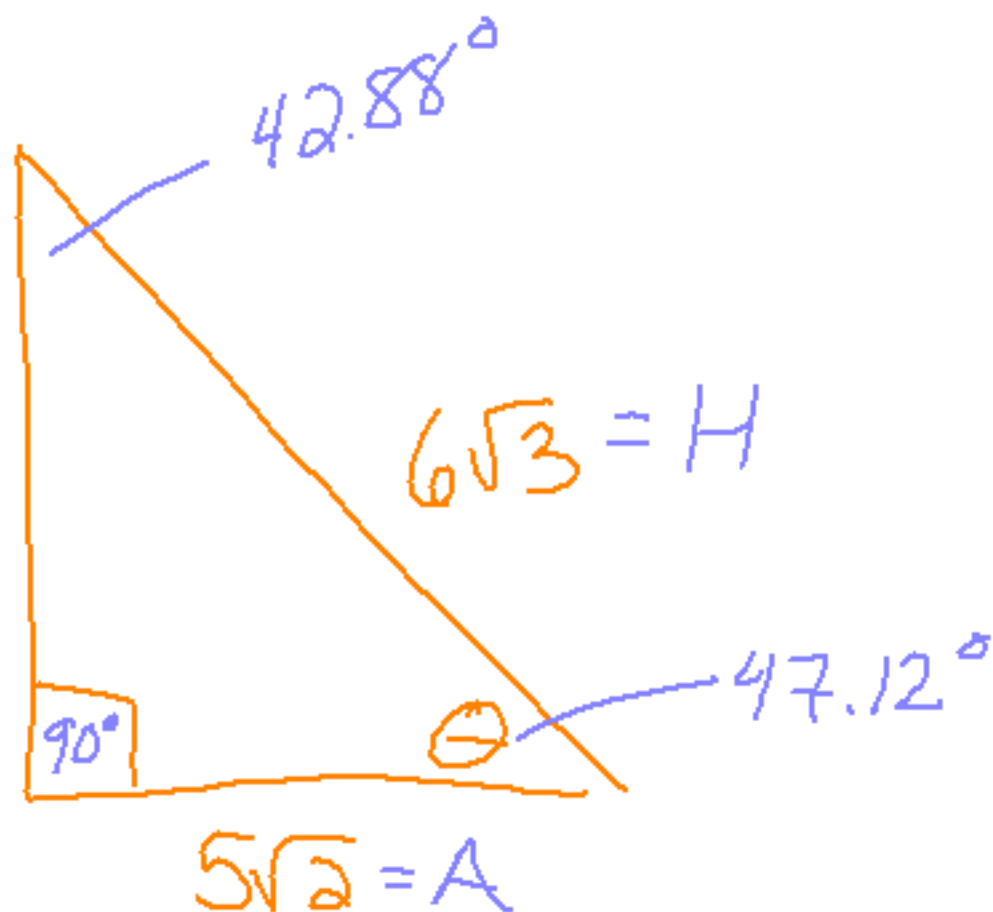


12



12

$$7.62 = \sqrt{58} = O$$



$$\cos^{-1}(\cos \theta) = \left(\frac{5\sqrt{2}}{6\sqrt{3}} \right)$$

$$\theta = \cos^{-1} \left(\frac{5\sqrt{2}}{6\sqrt{3}} \right)$$

$$a^2 + (5\sqrt{2})^2 = (6\sqrt{3})^2$$

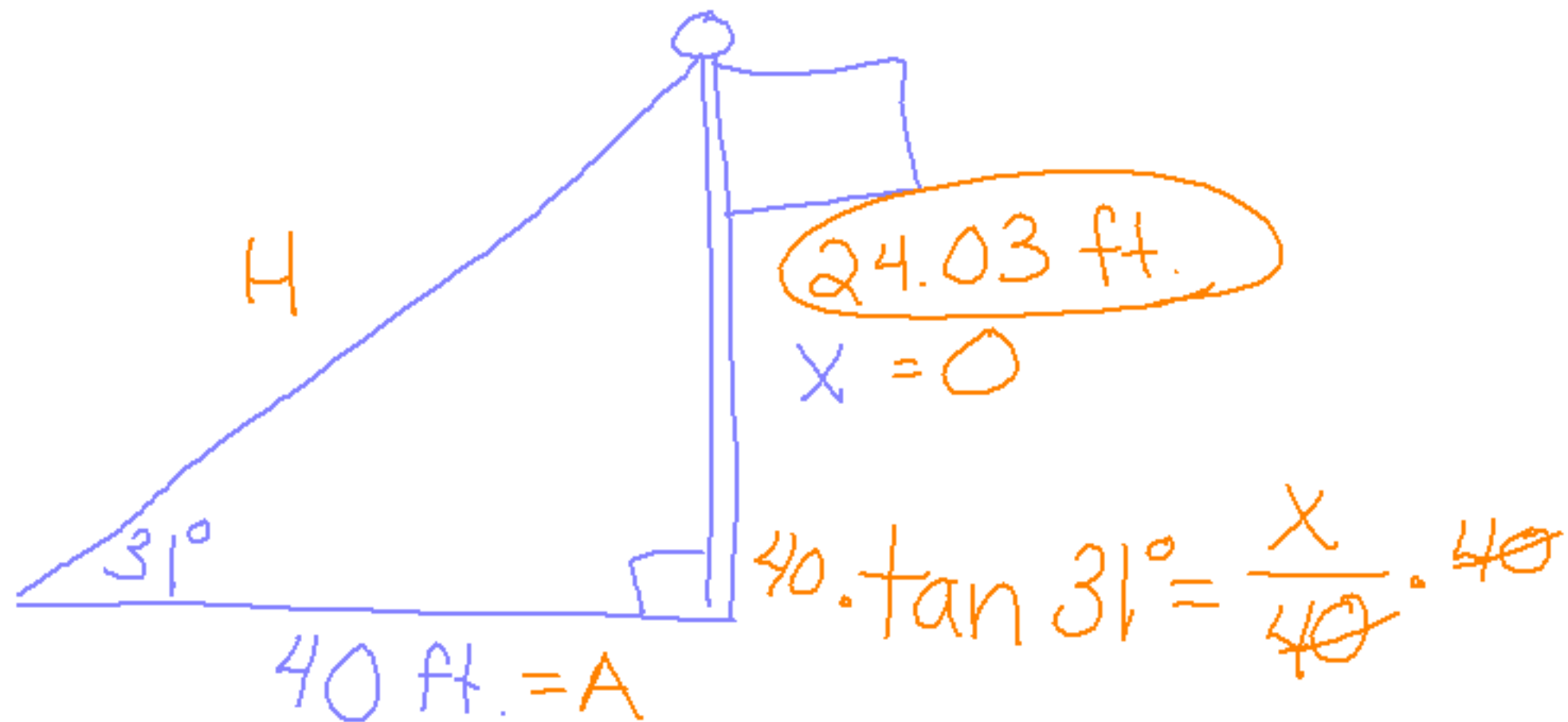
$$a^2 + 50 = 108$$

$$a^2 = 58$$

$$a = \sqrt{58}$$

elevation = up

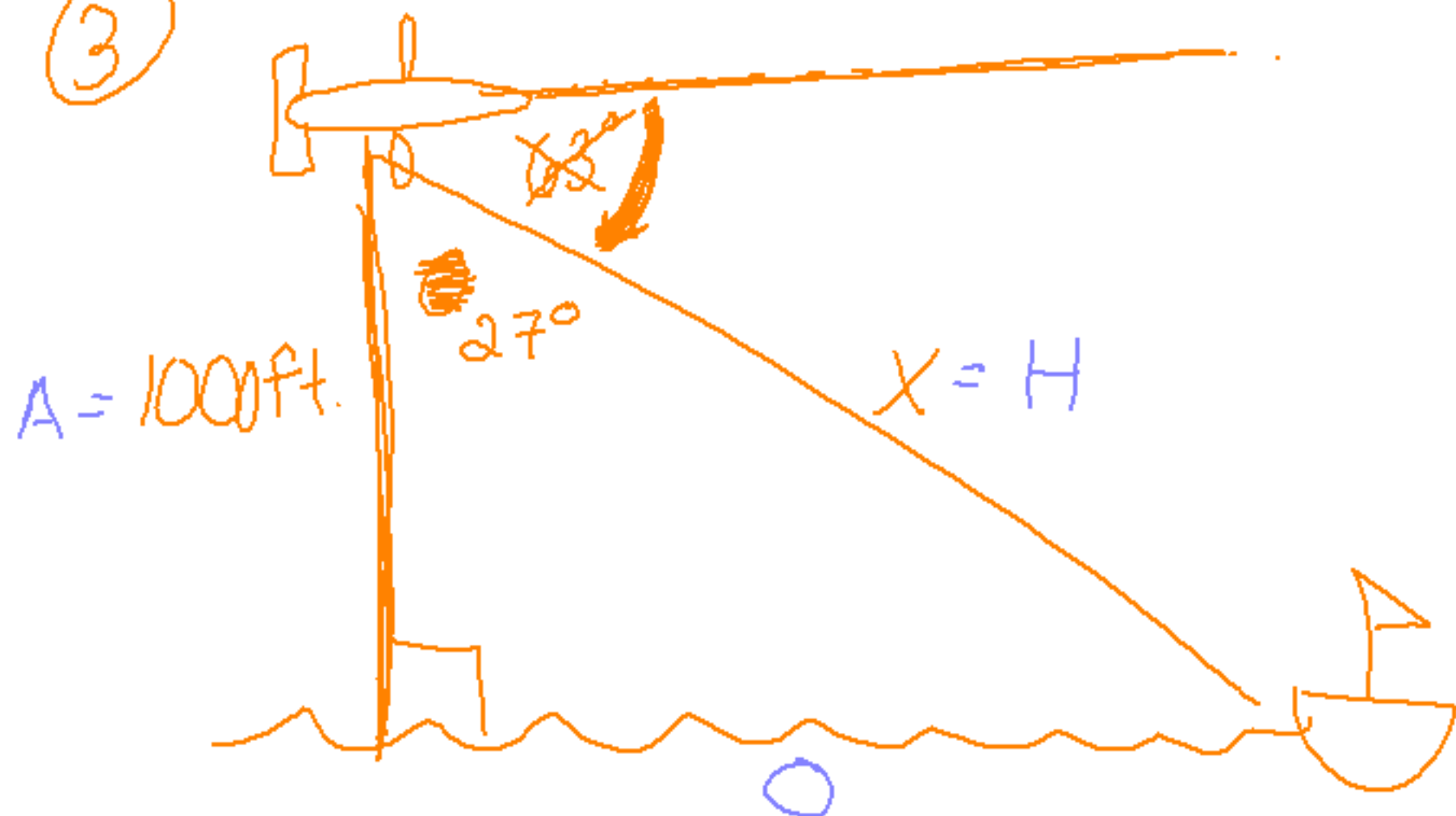
depression = down



$$40 \tan(31^\circ) = X$$

$$24.03 = X$$

③



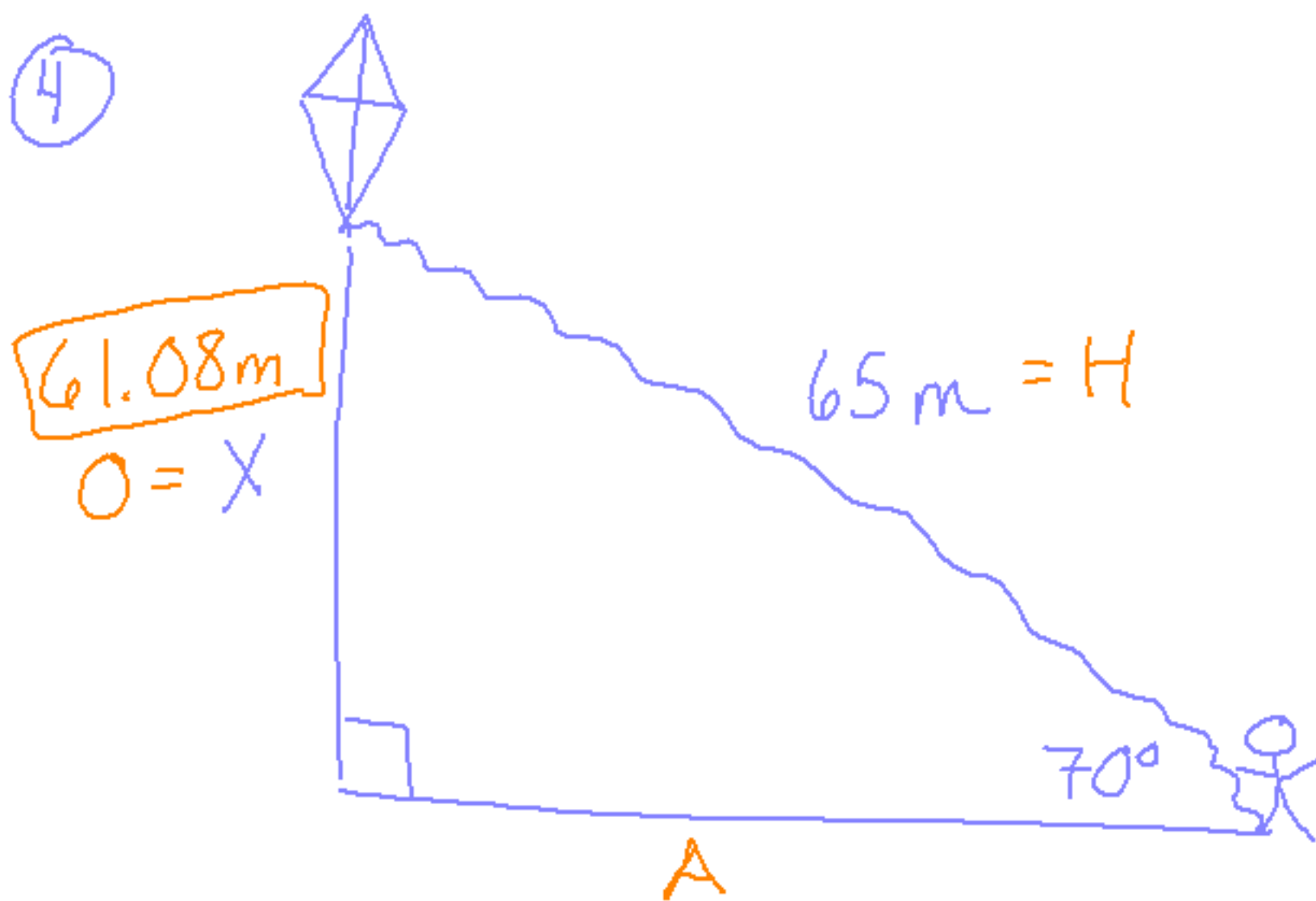
$$X \cdot \cos 27 = \frac{1000}{X} \cdot X$$

$$\frac{X \cdot \cancel{\cos(27)}}{\cancel{\cos(27)}} = \frac{1000}{\cos(27)}$$

$$X = \frac{1000}{\cos(27)}$$

$$X = 1122.33 \text{ ft.}$$

④

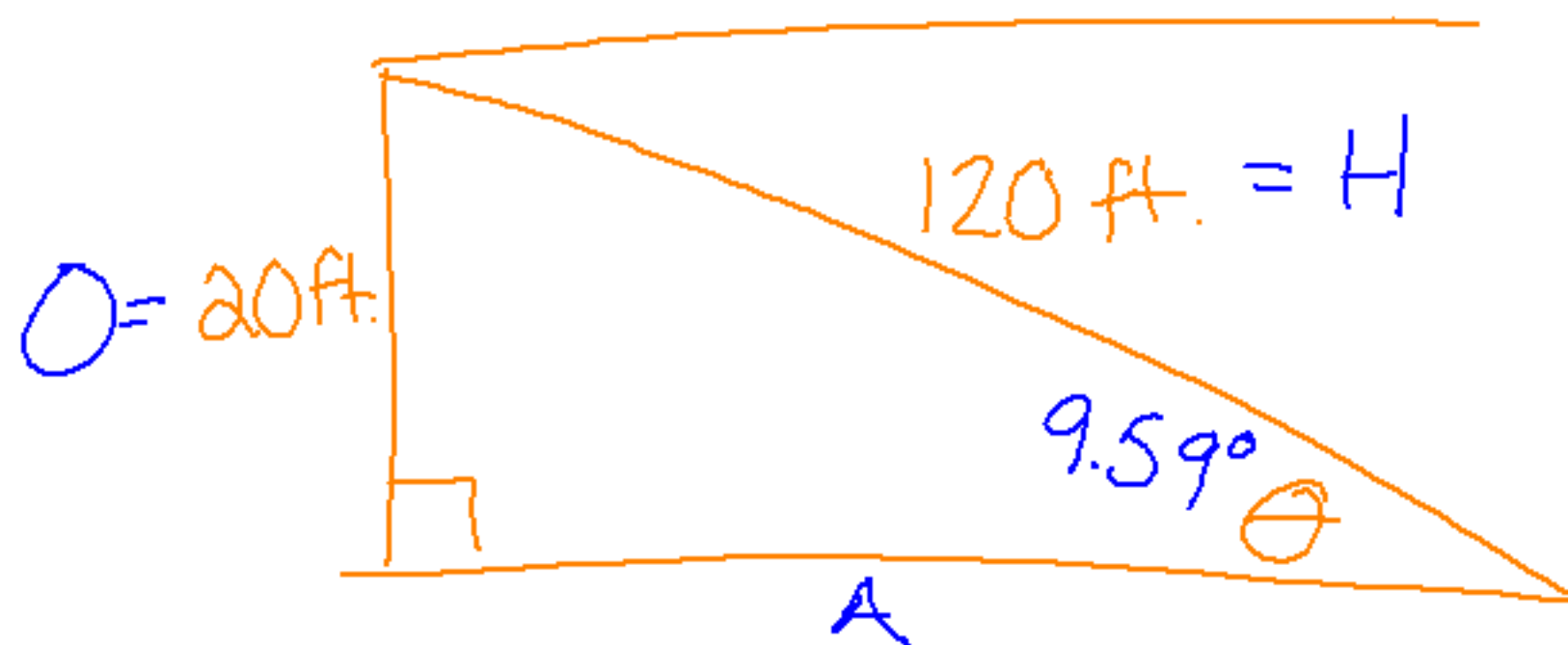


$$\sin(70^\circ) = \frac{x}{65}$$

$$65 \sin(70^\circ) = x$$

$$61.08m = x$$

⑥

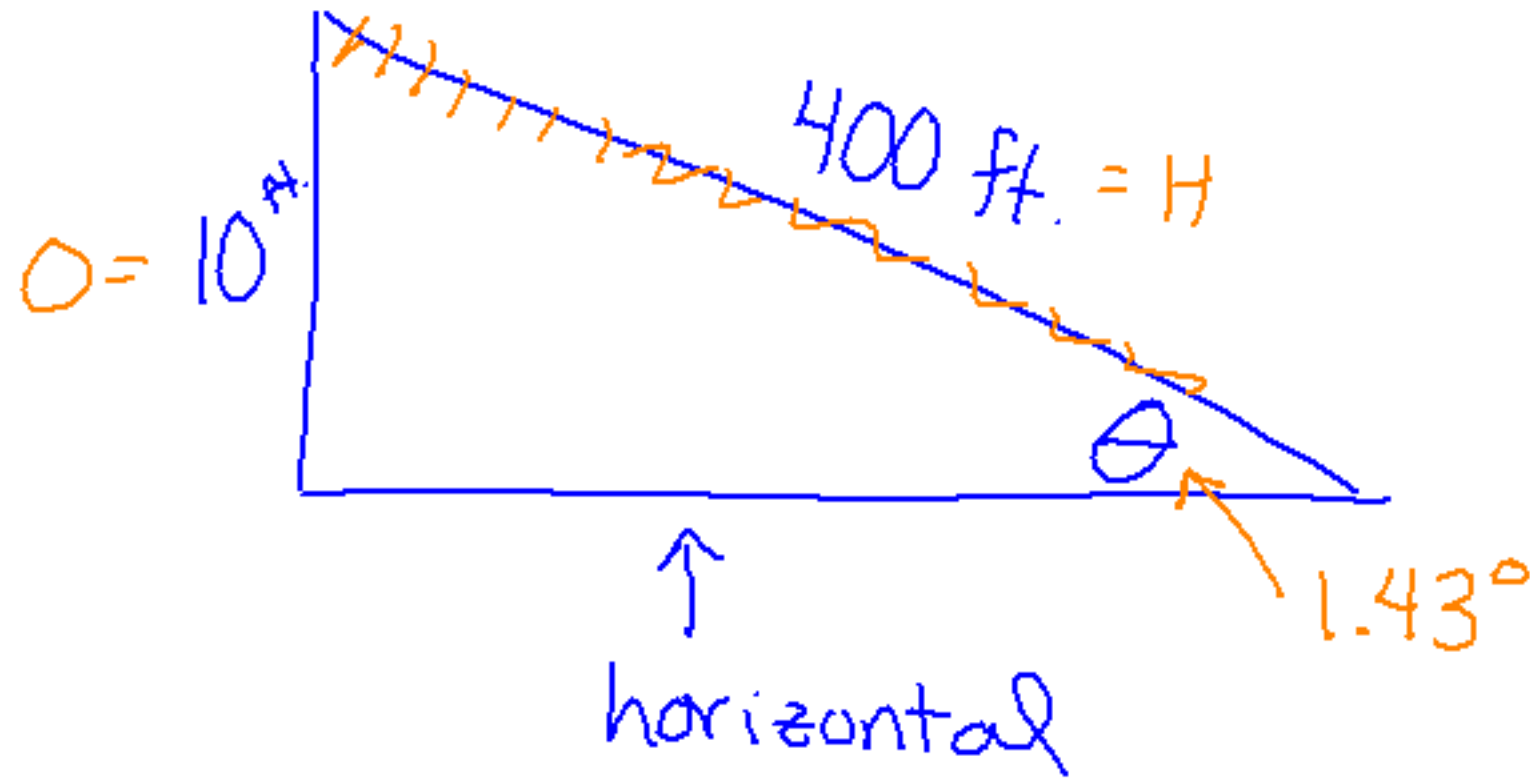


$$\sin^{-1}(\sin \Theta) = \sin^{-1}\left(\frac{20}{120}\right)$$

$$\Theta = \sin^{-1}\left(\frac{20}{120}\right)$$

$$\Theta = 9.59^\circ$$

⑦

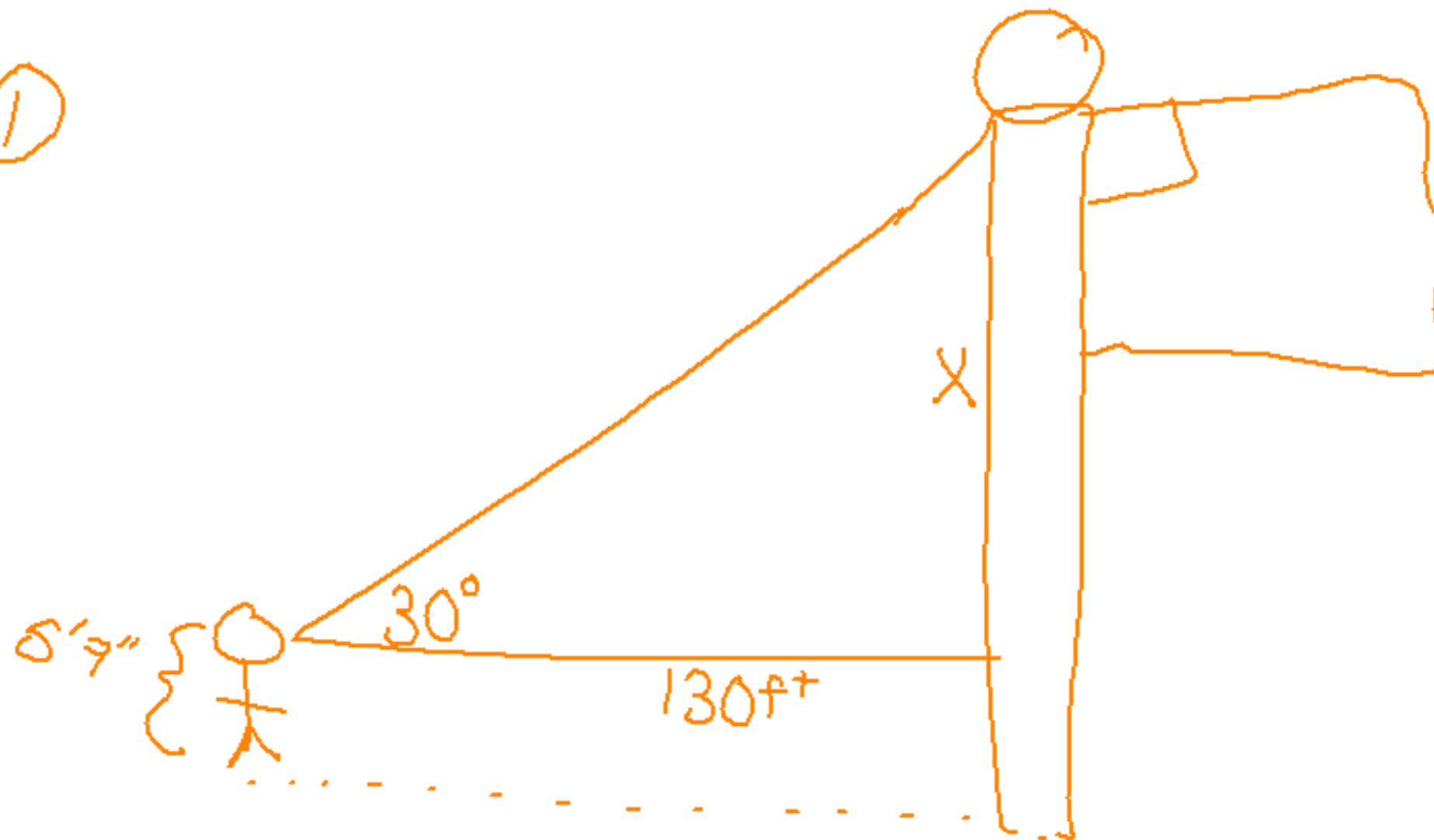


$$\sin \Theta = \frac{10}{400}$$

$$\Theta = \sin^{-1} \left(\frac{10}{400} \right)$$

HW #1, 4

①



④

